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THIRD ANNUAL REPORT

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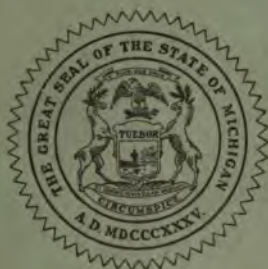
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STATE FIRE MARSHAL

TO THE

GOVERNOR OF MICHIGAN FOR THE YEAR 1913

By JOHN T. WINSHIP,
Commissioner of Insurance, Ex-Officio State Fire Marshal



LANSING, MICHIGAN
WYNKOOP HALLENBECK CRAWFORD CO., STATE PRINTERS
1914



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1914



Remarkable picture of recent mill fire in Michigan showing need of properly protecting adjoining property.

OFFICE OF STATE FIRE MARSHAL.

LANSING, MICHIGAN.

JOHN T. WINSHIP, Ex-Officio State Fire Marshal,

H. P. ORR, Ex-Officio Deputy State Fire Marshal,

SAM ROBINSON, Assistant State Fire Marshal.



Two views of fire which almost destroyed the Michigan Central passenger depot in the city of Detroit.

**FINANCIAL REPORT OF STATE FIRE MARSHAL'S BUREAU
FROM APRIL 1, 1913 TO DECEMBER 31, 1913. (EXPENDI-
TURES JANUARY 1, 1913 TO MARCH 31, 1913,
INCLUDED IN LAST REPORT.)**

DISBURSEMENTS.

Salaries	\$4,362 36
Traveling expenses	2,418 15
Postage	200 00
Printing and binding	253 86
Express	8 80
Office supplies	59 08
Telephone	87 86
Miscellaneous	315 13
Total	<hr/> \$7,705 24

RESOURCES.

Appropriations available July 1st, 1913 to June 30th, 1914..	\$15,000 00
Fees collected, moving picture inspections.....	4,430 00
Total	<hr/> \$19,430 00
Balance	<hr/> \$11,724 76

THIRD ANNUAL REPORT.

DEPARTMENT OF INSURANCE—FIRE MARSHAL'S BUREAU.

Lansing, April 1st, 1914.

To His Excellency, Woodbridge N. Ferris, Governor of the State of Michigan, Lansing:

Sir:—In submitting this, the Third Annual Report of the State Fire Marshal's Bureau, it is necessary to call attention to the fact that, owing to a desire to make the report cover a calendar year rather than a fiscal year, for the purpose of future comparisons, it has been found advisable to include the figures of the last three months of the last annual report in the statistical tables.

The work of the Bureau, in the past year, has deeply impressed me with its possibilities, and I am sure that no member of the legislature or citizen of Michigan, can contemplate the great benefits that are inuring to our material welfare, by the operation of this Bureau, without feeling that the money it has cost, has been well spent. While the organization is not even yet elaborate, as compared to the bureaus of some other states, it was not until the past year that any real constructive work was possible, owing to the lack of proper appropriation. If there were nothing else to mark the record of the past year, the work in connection with the supervision and regulation of the moving picture theaters and the unusual number of investigations of suspicious fires, with the attendant punishment of convicted or self confessed arsonists, which has had an almost incalculable moral influence, would alone stamp the year 1913, as a notable one.

The Bureau has been hampered in a measure by the tendency on the part of some, to thwart the enforcement of the law, by resorting to court injunction. It is a matter of regret that though the statistics show that the needless fire waste in this country, is appalling as compared to fire waste of European countries, no sooner do our legislatures, in their wisdom, pass laws for prevention of this vast toll in loss of life and property than seemingly good citizens, seemingly patriotic citizens, rush into the courts and seek by injunction to prevent the state authorities from enforcing the statutes. Education, however, will in time, remedy this evil; and I trust that the time is not far distant when elementary instruction in the great economic loss of fire waste, as well as in the ordinary methods of fire prevention, will be taught in our public schools, by occasional but periodic lectures. When the public, as a whole, comes to a realizing sense, that the people and not the insurance companies pay the fire losses, and that property destroyed by fire, is property gone forever, we will have more co-operation with state authorities in the matter of law enforcement.

FIRE CHIEFS SHOULD BE PAID.

The Fire Chiefs of the State, with but one or two exceptions, have been willing and anxious to co-operate with this Bureau, in every way possible, to bring about better conditions and reduce the fire hazard in Michigan. This feeling of co-operation has also been shared by the various city electricians, building inspectors, local authorities, the newspapers and the public in general. Under the Fire Marshal Law, the chief of each fire department is a deputy state fire marshal, but no provision has ever been made by the legislature to reimburse them for the work demanded of them by the State. Outside of the larger cities, Detroit, Grand Rapids, Saginaw, Bay City, Battle Creek, Lansing, Jackson and such towns, the chiefs are but part paid. Many of them are employed at day labor in business places or factories, while others are engaged in business for themselves. They, under the Fire Marshal Law, are required to devote many hours during the year in making inspections, investigations, making reports to and serving notices and orders for this Bureau. In many instances, this work comes as an actual hardship, in that considerable time and money is lost to them, while working under orders from the Fire Marshal. In all but one or two instances, as above mentioned, the chiefs throughout the State, have given their time willingly and cheerfully and have spent no small amount of money in postage, etc., in making out and mailing reports to this office, and I respectfully suggest that the fire chiefs of Michigan, especially those who do not receive full pay from their respective cities, ought to be allowed, by law, suitable remuneration for the work performed by them for the State, work which is almost of inestimable value to this Bureau and the State.

MICHIGAN FIRE PREVENTION ASSOCIATION.

I also wish to acknowledge the work of the Michigan Fire Prevention Association. This Association is composed of about one hundred bright, capable field men of the various fire insurance companies, all experts in their line of work, who devote from one to two days each month, in the larger towns and cities of the State, making thorough inspections of the fire hazards in the down-town and congested districts. Either Assistant Fire Marshal Robinson or a representative from this Bureau has been in attendance at the meetings of this Association, held at Manistee, Ludington, Menominee, Grand Rapids and Detroit and have assisted in the work of such inspections. The work of the Michigan Fire Prevention Association is just what the name implies, the prevention of fires throughout the State. At each inspection, the men are assigned certain city blocks to inspect. The property is carefully inspected from cellar to roof and every defect noted. Property owners are given instructions in regard to the danger of allowing rubbish to accumulate; of the danger of fire from improper installation of electric wiring and all other causes. A written report is made of each individual inspection and the property owner is given written instructions to remedy all hazardous conditions. Should the owner fail to comply with such instructions within a reasonable length of time, the matter is turned over to this Bureau and an inspector is then sent to

investigate and issue the necessary orders. That the work of the Michigan Fire Prevention Association has brought splendid results is beyond question. The newspapers of the various towns and cities where inspections were held, have rendered every assistance through their columns, and in many instances the papers have published strong editorials commending the work of the Fire Marshal's Bureau and the Michigan Fire Prevention Association.

MOVING PICTURE LAW UPHELD.

On or about the 20th of July, I issued orders, under Section 4 of the Michigan Moving Picture Law, closing three upstairs moving picture theatres at Detroit, the Bijou, 24 Monroe Street; the Jewel, 30 Michigan Avenue, and the Avenue, 996 Michigan Avenue. Following the serving of the above orders, the owners of the three upstairs theatres, secured temporary injunctions, restraining this Bureau from interfering with their theatres. The temporary injunctions were obtained before Circuit Judge, Hon. Alfred J. Murphy, and were later made permanent. The case was then carried to the Supreme Court of Michigan, by Attorney General Grant Fellows, where the law was sustained by a sweeping decision of the Court, with every judge sitting on the case and all concurring in the opinion handed down. This opinion, I believe, to be one of the best ever rendered in Michigan, for the safety of the public and the protection of property and will no doubt apply to every theatre in Michigan showing motion pictures. The above mentioned theatres, following the decision of the Supreme Court and upon recent orders issued by this Bureau, have discontinued the use of motion pictures. At the beginning of the first inspection of the theatres in July, it was found that many, especially those in the smaller towns, were veritable fire-traps, and very dangerous conditions were found in the greater majority of such theatres throughout the State.

The Calumet disaster, of course, demonstrates that it is not necessary for an actual fire to occur to cause a panic, and that under certain conditions, a panic happening in any public place or theatre, may cause appalling loss of life, whether or not the requirements of the State Law have been complied with. In connection with the Calumet horror, I wish to call your attention to the fact that throughout the State there are a large number of upstairs theatres and opera houses—not showing pictures—which, because of their location, should be considered as extremely dangerous. Should a fire or panic happen during a performance in many of the theatres, when a large crowd is present, it is not unreasonable to expect a repetition of the awful calamity, which shocked the entire country, at Calumet Christmas Eve. I am recommending that a law be enacted, closing every upstairs theatre, opera house and place of amusement in Michigan. Such a law would meet with much opposition from various quarters, but I believe it would meet with the unqualified approval of the people of the State.

FIRE DRILLS IN SCHOOLS.

Section 9 of the State Fire Marshal Law, requires all schools to conduct proper fire drills, at least once a month, and that all exit doors be kept unlocked. During the year, the attention of school authorities

in various parts of the State, was called to this provision in the law. All chiefs of fire departments were requested in a circular letter, issued by the Bureau, to advise with local school boards and superintendents on this point. In a few remote cases, it was later found necessary by the Bureau, to issue formal orders, directing that the law be complied with.

FIRE ESCAPES AND EXIT DOORS.

Many public buildings in Michigan are not properly equipped with fire escapes, and exit doors do not swing outwardly to conform to law. Appreciating this fact, this Bureau began, just before the close of the year, an energetic campaign, to remedy conditions. A large number of inspections of buildings were made, by the Bureau Inspectors, and orders issued, directing the erection of fire escapes or rearranging of exit doors and hallways. In this work, the Bureau, in a circular letter, directed to the fire chiefs of the State, asked their co-operation, and met with a ready response. I have also found that the general public was awakened to the gravity of the situation and with but few exceptions, all orders of the Bureau have been complied with.

STORING OF DYNAMITE.

In carrying on its inspection work, the Bureau has found that dealers who handle dynamite, are familiar with the provision of the law regarding same, and it has been necessary in but few cases to order changes made in the methods in vogue. At Fremont, Fire Chief Henry McCarty, ordered the arrest of a dealer, on a charge of improperly storing dynamite, and he came into Court, pleaded guilty, paid a fine and was discharged.

BULLETINS.

During the year, the Bureau has engaged in a more or less systematic campaign to make the people of the State of Michigan, better acquainted with the work being done, and to encourage fire prevention and discourage fire waste. Bulletins have been issued each month giving information regarding the fires reported to the Bureau during the month. Special bulletins on the following subjects, have also been issued:

"Christmas Don'ts."

"Fourth of July Advice."

"Hints for Cold Weather."

"Warning against Unsafe Exits in Public Buildings."

"Proper Christmas Decorations in Stores."

"Matches as Mischief Makers."

"Warning to Careless Smokers."

In carrying on this campaign, the Bureau has been given the energetic and cheerful co-operation of the press of the State.

SUSPICIOUS FIRES.

Perhaps next in importance to the inspection of theatres, schools and public buildings throughout the State by the Fire Marshal Bureau, is the investigation of the many arson and incendiary fires. Never before

in the history of the Bureau, have as many suspicious fires been reported as in the past few months. For many months the Fire Marshal Bureaus of Ohio, New York, Illinois and other states, have been conducting an active and aggressive fight against the so-called "Arson Trust" and "Fire Bug Squads." As a result of the many convictions in the above mentioned States, and because of the large number of incendiary and arson fires being reported to this Bureau, at the present time, from the larger cities of the State, and especially the city of Detroit, I am convinced that this class of criminals has selected Michigan, in which to continue its operations. Since the first of July, the Bureau has investigated sixty-one suspicious fires, as shown by the special reports. Of this number, while we were convinced of the guilt of the parties suspected, in many instances it was impossible to secure evidence to warrant prosecution.

A number of confessions of guilt have been secured, as shown by the report, and a number of cases are pending at the present time in the Courts. Up to the time I assumed the duties of State Fire Marshal, owing to insufficient appropriations, very little effort had been made toward the investigation of incendiary fires. Local authorities, sheriffs, prosecuting attorneys and other officials, know and realize how difficult it is to obtain evidence in such cases and this class of criminals was practically free from prosecution in Michigan. Because of the many obstacles and for the reason that in the case of a suspicious fire, where the property is nearly or totally destroyed, thereby destroying all evidence of the methods employed by the "fire-bugs," the work of investigation at times is discouraging, but I am thoroughly convinced that every investigation has a good moral effect and that much is accomplished whether or not a conviction is secured.

Under the present Fire Marshal Law, these investigations can be conducted only by myself, the deputy or the assistant Fire Marshal. In many of the States there are from seven to ten deputies or assistants with full authority to make investigations of arson or incendiary fires, and I believe the present Michigan Law should be changed, so that the Fire Marshal should have the authority to employ and issue commissions to extra deputies to take care of and devote the necessary time to this branch of the work.

I would be faithless to my sense of justice, if I did not here acknowledge my deep appreciation of the unusual devotion of Asst. State Fire Marshal, Sam. Robinson, and his staff to their official work. Theirs has been an arduous labor, for they were enforcing new and seemingly drastic laws, and it has required patience and courage upon many occasions. We have not in the past, had the advantages of a general bulletin service for communication with the public, but the press of the State, has given valuable co-operation and recognized the importance of the work to their readers; and I consider this phase of publicity, more influential and far reaching than any other. I cannot close this report therefore, without expressing my profound thanks to the newspapers of Michigan, for their loyalty to the interests of the people of the State, in their valuable support to this Bureau in its work.

Respectfully submitted,

JOHN T. WINSHIP,

Commissioner of Insurance.

Ex-Officio State Fire Marshal.

INSPECTIONS OF HAZARDS.

The feature of the work done by the bureau during the year in making inspections of various hazards and in issuing orders where necessary has been the discovery that the people of Michigan are thoroughly awake to the fact that the best way to stop fires is to prevent them. In nearly every city and village, where inspections have been made, the local authorities have been eager to give the bureau every encouragement and assistance. Property owners on whom orders were issued have in most cases promptly complied with the same. During the year 837 official inspections made in 105 cities and villages were recorded by the bureau; 261 orders directing that buildings be repaired were issued; 235 directing the razing of structures; 152 ordering the cleaning up of premises; 183 directing compliance of the law relating to the storing or handling of gasoline and explosives. In addition to the inspections which are a part of the official records the bureau representatives in a large number of cases called the attention of property owners to faulty conditions, and upon their promises to remedy same did not make any reports and no official orders were issued.

TABLE I.—INSPECTION OF HAZARDS.

City,	No.	Repairs.	Tear downs.	Clean-up.	Gasoline, dynamite.
Alpena.....	12	8	1	2	1
Albion.....	42	19	7	8	8
Adrian.....	56	40	14	2	
Augusta.....	5	2	2	1	
Ashten.....	1		1		
Alma.....	1				1
Bay City.....	6	1	4		1
Benton Harbor.....	1	1			
Boyne City.....	1	1			
Boyne Falls.....	2		2		
Blissfield.....	3	1	2		
Bancroft.....	15	2	5		8
Brooklyn.....	1				1
Buchanan.....	1				1
Brighton.....	1	1			
Battle Creek.....	8	4	4		
Bronson.....	2				2
Britton.....	6				6
Chesaning.....	1	1			
Charlotte.....	1	1			
Cheboygan.....	1	1			
Carson City.....	7	3	4		
Durand.....	29	4	7	12	6
Dexter.....	1				1
Detroit.....	2				2
Dryden.....	2		2		
Dowagiac.....	4		2	1	1
Davidson.....	1				1
East Tawas.....	28	16	4	4	4
Eau Claire.....	3		3		



Alley in Battle Creek cleaned up by order of State Fire Marshal.



Building located in alley in business section of Battle Creek razed on order of State Fire Marshal.



Dwelling in Lansing ordered torn down by State Fire Marshal

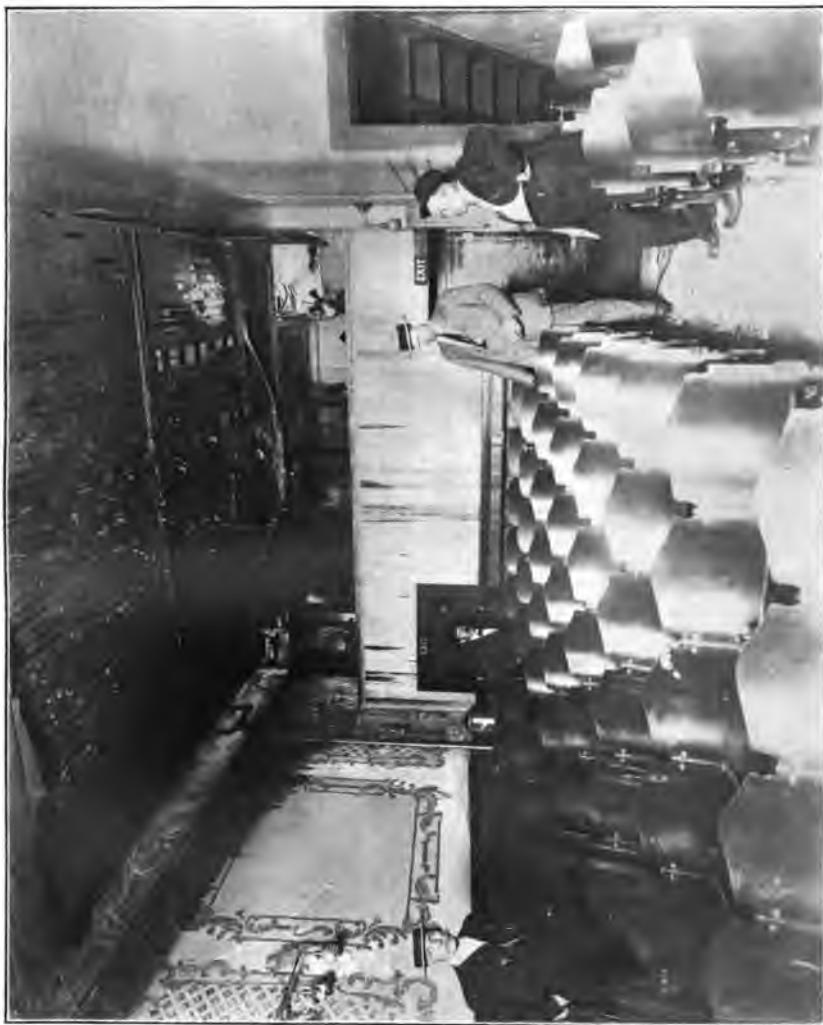
TABLE I.—Continued.

City.	No.	Repairs.	Tear downs.	Clean-up.	Gasoline, dynamite.
Flint.....	21	4	2	15	1
Farwell.....	1				1
Freesoil.....	1				1
Fremont.....	7	2			5
Gaylord.....	1				1
Grand Ledge.....	18	7	7		4
Grand Rapids.....	16	2	8		6
Galesburg.....	6	2	2		2
Gladstone.....	1				1
Hart.....	15		7	1	7
Holland.....	1		1		1
Hagensville.....	1				5
Hanover.....	5				2
Hastings.....	2				
Iron River.....	2		2		
Jackson.....	10	1	6	2	1
Kalamazoo.....	39	34	25		
Kent City.....	1		1		
Lansing.....	54	20	5	29	9
Leslie.....	14		13	1	
Leoni.....	1			1	
Laingsburg.....	3		1		2
Lupton.....	1		1		
Lake Linden.....	1		1		
Mount Pleasant.....	4	1	1	1	1
Muskegon.....	11	1	7	3	
Mount Pleasant.....	4	2	1		1
North Muskegon.....	1		1		
Mason.....	8	5	6		1
Marquette.....	1	1			
Marshall.....	49	16	14	17	2
Manchester.....	5		1		4
Mackinac City.....	2	1	1		
Munith.....	1				1
Michigan City.....	1				1
Manistee.....	2		2		
Morrice.....	11	6	3	2	
Manitou Beach.....	1		1		1
Mt. Clemens.....	1		1		
Morenci.....	8		2	1	
Milan.....	4		1		3
Midland.....	3				3
Memphis.....	2		2		
Niles.....	1		1		
Newberry.....	1		1		
Owosso.....	39	8	10	10	14
Orleans.....	1				1
Oxford.....	1		1		1
Otsego.....	1		1		
Petoskey.....	15	2	1	11	1
Parma.....	8	5	1	1	1
Perry.....	16	6	3	1	6
Portland.....	3	1	2		
Perrinton.....	1	1			
Port Huron.....	10	9	1		
Pontiac.....	1	1			
Saginaw.....	5	1	2	2	
Sunfield.....	8	5	2	1	
St. Louis.....	2	1			1
Shepherd.....	1		1		
St. Joseph.....	6	5			1
Shelby.....	4		4		
Sturgis.....	1				1
Thompsonville.....	1	1			
Three Rivers.....	8			7	1

STATE FIRE MARSHAL

TABLE I.—*Concluded.*

City.	No.	Repairs.	Tear downs.	Clean-up.	Gasoline, dynamite.
Traverse City.....	1	1			
Union City.....	1		1		
Vermontville.....	1				1
Wayland.....	1	1			
Whitehall.....	1			1	
Wacousta.....	1				1
Webberville.....	24	13	5	3	3
West Branch.....	1				1
Ypsilanti.....	63	3	3	32	25
Totals.....	837	261	235	152	183



Interior of Theatorium Moving Picture theatre, Lansing, taken after fire which started in booth
had blistered seats in middle of house.

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MOVING PICTURE THEATRE INSPECTIONS.

Given jurisdiction by Act 257, Public Acts of 1913; this bureau has inspected various buildings where moving picture exhibitions have been given. In carrying on this work the bureau inspectors visited 235 cities and villages, inspected 612 theatres, issued 439 licenses, closed 59 theatres and ordered 46 others to discontinue giving pictures. In a large number of cases it was found necessary for theatres to be inspected more than once before approval could be given to them and licenses issued. In performing this labor the bureau has received valuable aid from fire chiefs and has found theatre owners *as a rule* ready to comply with all the provisions of the orders.

TABLE II.—THEATRE INSPECTION.

Town.	Orders issued.	Licenses issued.	Pictures discontinued.	Theatres closed.
Albion.....	2	2	1	1
Alma.....	1	1		
Alpena.....	4	4		
Adrian.....	5	5		
Ann Arbor.....	6	4		
Almont.....	1	1		
Allegan.....	2	1		1
Atlantic.....	2	1		
Ahmeek.....	1			
Alba.....	1		1	
..... Creek.....	1	1		
Bay City.....	9	9		1
Bay City.....	3	3		
Bay City.....	13	13		4
Boyne City.....	7	1		
Bellevue.....	2	1	1	
Brown City.....	2	2		
Buchanan.....	1	1		
Bad Axe.....	1	1		1
Benton Harbor.....	6	5	2	
Berrien Springs.....	1	1		
Brighton.....	1	1		
Big Rapids.....	3	3		
Blissfield.....	2	2		
Baraga.....	2	1		
Bessemer.....	3	3		
Birmingham.....	1	1		
Bangor.....	1	1		
Byron.....	1			1
Bronson.....	1	1		
Cadillac.....	5	4		
Clare.....	1	1		
Central Lake.....	1	1		
Charlevoix.....	2	1		1
Coldwater.....	3	3		
Caro.....	1	1		
Cassopolis.....	1	1		
Charlotte.....	2	2		
Cheboygan.....	3	2	1	
Chesaning.....	2	1		1

TABLE II.—Continued.

Town.	Orders issued.	Licenses issued.	Pictures discontinued.	Theatres closed.
Cass City.....	1	1		
Croswell.....	1			1
Calumet.....	5	5		
Constantine.....	1	1		
Colon.....	1	1		
Crystal Falls.....	2	2		
Centerville.....	1			1
Cedarville.....	1			1
Coleman.....	1	1		
Clio.....	1	1		
Chelsea.....	1	1		
Coloma.....	1	1		
Clinton.....	1	1		
Coopersville.....	1	1		
Carson City.....	3	1	2	
Capac.....	1	1		
Detroit.....	97	29		
Decatur.....	1	1		1
Dowagiac.....	3	3		
Deckerville.....	1	1		
Dollar Bay.....	1	1		
Durand.....	1	1		
Dundee.....	1	1		
Edmore.....	1		1	
Eaton Rapids.....	2	1		1
Ewart.....	1	1		
Elk Rapids.....	1	1		
Essexville.....	1	1		
Eau Claire.....	1			
East Jordan.....	1	1		
East Tawas.....	1	1		
Ewen.....	2	1	1	
Escanaba.....	4	3		1
Flint.....	11	11	2	
Frankfort.....	1	1		
Fowlerville.....	1	1		
Fremont.....	2	1	1	
Flushing.....	2	1	1	
Fenton.....	1	1		
Fennville.....	1	1		
Grand Haven.....	3	2	1	
Grand Rapids.....	23	19	4	
Grand Ledge.....	2	2		
Gladstone.....	2	2		
Greenville.....	2	2		1
Gladwin.....	1	1		
Grayling.....	1	1		
Gaastra.....	1		1	
Grant.....	1		1	
Captain Scotts Pictures (Travelling).....	1	1		
Holland.....	3	2	1	
Highland Park.....	3	3		
Harbor Springs.....	2	2		
Howell.....	1	1		
Hastings.....	2	1		
Hillsdale.....	3	3		
Hudson.....	3	3		
Harbor Beach.....	2	2		
Houghton.....	3	3		
Hancock.....	4	4		
Hubbell.....	1	1		
Lyman H. Howe (Traveling).....	2	2		
Hart.....	2	2		
Hartford.....	1	1		1
Ionia.....	3	3	1	

TABLE II.—Continued.

Town.	Orders issued.	Licenses issued.	Pictures discontinued.	Theatres closed.
Ironwood.....	2	2		
Inlay City.....	1	1		
Ishpeming.....	2	2		
Iron River.....	2	2		
Iron Mountain.....	2	2	1	
Ithaca.....	1	1		
Jackson.....	9	9	1	1
Jesseville.....	1	1	1	
Rainey's African Hunt (Traveling).....	1	1		
Jonesville.....	1	1		
Kalamazoo.....	9	8		
Kent City.....	1		1	
Lake Odessa.....	1	1		
Lansing.....	8	8	1	2
Lowell.....	1	1		
Lapeer.....	2	2		
L'Anse.....	1	1		
Lake Linden.....	1	1		
Laurium.....	2	2		
Ludington.....	2	2		
Lawrence.....	1	1		
Lawton.....	1	1		
Manistee.....	6	3		
Marine City.....	2	2		
Muskegon.....	9	8		1
Marshall.....	2	1	1	
Mount Pleasant.....	2	2		
Mason.....	1	1		
Marlette.....	1	1		
Mount Clemens.....	4	4		
Midland.....	1	1		
Millington.....	2	1	1	
Monroe.....	4	3	1	
Mackinac City.....	1			1
Munising.....	2	1		1
Marquette.....	3	2		1
Mackinac Island.....	2			
Menominee.....	3	3		
Michigamme.....	1		1	
Manistique.....	2	1		
Mancelona.....	1	1		
Maple Rapids.....	1			
Mount Morris.....	1			1
Morenci.....	1	1		
Milan.....	2	1	1	
Marcellus.....	1	1		
Manchester.....	1	1		
Mendon.....	1	1		
Taylor's Shows (Traveling).....	1		1	
Bunk's Shows (Traveling).....	1			
Motion Drama Co (Traveling).....	1			
Memphis.....	1			
Marquette.....	3	2		1
Niles.....	4	3	1	
Northville.....	1	1		
Nashville.....	1	1		
Newberry.....	1	1		
Negaunee.....	2	1		1
Norway.....	2	2		
Newaygo.....	1	1		
National Cash Register Company.....	1		1	
Owosso.....	4	4		
Olivet.....	1	1		
Onaway.....	2	2		
Ontonagon.....	2	1		

TABLE II.—Continued.

Town.	Orders issued.	Licenses issued.	Pictures discontinued.	Theatres closed.
Otsego.....	2	1		1
Oxford.....	2	2		
Ovid.....	1	1		
Portland.....	1	1		
Petoskey.....	3	2		1
Port Huron.....	7	6	1	
Paw Paw.....	2	2		1
Plymouth.....	1	1		
Pinconning.....	1	1		
Pigeon.....	1	1		1
Perry.....	1	1		
Pontiac.....	6	6		1
Pentwater.....	1	1		
Peck.....	1	1		
Quincy.....	2	1	1	
Quo Vadis (Traveling).....	1	1		
Reed City.....	2	2		
River Rouge.....	1	1		
Republic.....	1	1		
Rochester.....	1	1		
Royal Oak.....	1	1		
Redford.....	1	1		
Reading.....	1	1		
Saginaw.....	16	16		
Sandusky.....	1	1		
Sparta.....	2	1	1	
St. Johns.....	1	1		
Stanton.....	1			1
South Frankfort.....	1			1
St. Joseph.....	4	3		1
Standish.....	1	1		
St. Charles.....	1	1		1
St. Louis.....	1	1		
Sebewaing.....	1			1
Sturgis.....	2			2
South Range.....	1	1		
Sault Ste. Marie.....	4	4		
St. Ignace.....	1	1		1
Schoolcraft.....	2		1	1
Stambaugh.....	1			1
Springport.....	1	1		
St. Claire.....	1	1		
South Haven.....	3	3		
St. Joseph.....	1	1		
Sherwood.....	1		1	
Springwells.....	1	1		
Thompsonville.....	1	1		1
Traverse City.....	3	2	1	
Three Oaks.....	1	1		
Three Rivers.....	2	2		
Tekonsha.....	1		1	
Tecumseh.....	2	1		
Union City.....	1	1		
Utica.....	1	1		
Vassar.....	1	1		
Vandalia.....	1	1		
Vicksburg.....	1	1		
Vulcan.....	1	1		
Wyandotte.....	2	2		
Wenonah Beach.....	1		1	

TABLE II.—*Concluded.*

Town.	Orders issued.	Licenses issued.	Pictures discon- tinued.	Theatres closed.
Webberville.....	1	1	1	1
Williamston.....	2	1		1
Wayne.....	1			1
West Branch.....	2	2		
Wakefield.....	2	1		1
Watervliet.....	1	1		
White Cloud.....	1			1
Wayland.....	1	1		
Yale.....	1	1		
Ypsilanti.....	3	2	1	
Totals.....	612	439	46	59

TABLE III.—FIRES BY MONTHS.

January	631
February	833
March	555
April	726
May	918
June	920
July	1,001
August	1,147
September	815
October	707
November	636
December	771
Total	9,660

REPORTS OF FIRES.

The tables contained in this report showing the number of fires reported to the State Fire Marshal's Bureau indicate an increase over the preceding year. This increase is due, however, not to an increase in the fire waste in the state, but rather to the fact that the bureau during the past year has put into effect a system, whereby it is able to secure more complete reports of fires taking place in the various sections of the state; in other words, we are getting the reports of fires now, where they were hitherto unreported. Bureau records reveal the fact that 6,551 of the 9,660 fires reported were in dwellings. During the year there were 230 fires in school houses, churches, theatres and other public buildings. Sparks on roofs are reported to have caused 560 fires. Of the 1,333 lightning fires, 142 were reported from Wayne county, 100 from Isabella and 86 from Oakland. Reports as to whether buildings struck were equipped with rods or not, are not complete but indicate that a small percentage of structures rodde were struck. Wayne county led in number of fires reported to have been caused by sparks from chimneys 130; unknown, 633; defective wiring, 108; defective chimneys, 95; matches, 378. Other counties making a considerable showing in these causes were as follows: Unknown, Kent, 157, Bay, 101; sparks from chimneys, Bay, 53, Kent, 32; defective wiring, Kent, 21, Saginaw, 17; defective chimney, Bay, 45, Kent, 36; matches, Kent, 57, Kalamazoo, 35. More than one-third of the 9,660 fires reported, or 3,480 were caused by defective chimneys, defective wiring, sparks from chimneys, overheated stoves, etc., and might have been prevented.

TABLE IV.—FIRE REPORT BY COUNTIES.

County.	No.	Value.	Loss.	Insurance.
Alcona.....	10	\$13,428	\$8,304 00	\$11,300
Alger.....	8	9,382	6,256 96	7,670
Alpena.....	126	974,672	120,661 62	811,508
Allegan.....	72	186,066	58,878 43	145,919
Antrim.....	22	88,304	13,176 23	71,350
Arenac.....	18	25,630	15,852 70	18,575
Baraga.....	12	33,425	23,284 46	18,800
Bay.....	418	1,449,866	208,648 12	1,072,507
Barry.....	34	200,629	30,047 41	131,760
Benzie.....	17	60,472	9,239 49	54,500
Berrien.....	181	721,286	179,068 26	377,259
Branch.....	21	168,449	11,478 50	164,852
Calhoun.....	191	3,543,399	144,917 56	2,117,719
Cass.....	72	87,177	23,920 62	67,644
Charlevoix.....	75	351,285	101,739 05	237,637
Cheboygan.....	50	250,080	38,669 46	85,550
Chippewa.....	70	325,880	67,959 06	250,206
Clare.....	22	39,552	7,739 00	27,550
Clinton.....	46	92,961	28,136 66	75,750
Crawford.....	13	60,696	32,220 99	51,960



Pupils of Genesee Street School, Lansing, just after a fire drill, 500 children leave building in sixty seconds.

TABLE IV.—*Concluded.*

County.	No.	Value.	Loss.	Insurance.
Delta.....	84	\$467,565	\$42,018 20	\$368,354
Dickinson.....	19	66,255	5,093 90	31,125
Eaton.....	98	261,437	61,394 21	210,162
Emmet.....	86	418,339	196,104 00	203,930
Genesee.....	164	1,087,503	246,229 05	607,852
Gladwin.....	18	87,175	24,300 38	45,354
Gogebic.....	38	134,707	57,332 25	74,899
Grand Traverse.....	65	754,635	82,427 42	698,180
Gratiot.....	89	262,912	146,303 70	193,117
Hillsdale.....	80	303,306	47,767 21	161,835
Houghton.....	175	1,177,841	80,678 17	929,562
Huron.....	77	191,616	46,460 00	148,569
Ingham.....	267	1,503,806	67,852 14	599,522
Ionia.....	85	676,653	200,206 70	318,337
Iosco.....	8	9,500	1,047 76	10,100
Iron.....	36	127,948	68,220 14	88,667
Isabella.....	156	147,981	36,680 06	114,709
Jackson.....	265	1,548,374	101,022 72	1,344,849
Kalamazoo.....	293	1,905,855	252,688 80	1,065,890
Kalkaska.....	19	60,412	14,197 86	56,000
Kent.....	563	5,304,602	127,849 26	3,849,845
Keweenaw.....	6	14,800	3,001 18	9,600
Lake.....	6	10,600	7,204 00	6,200
Lapeer.....	53	285,219	35,511 79	80,013
Leelanau.....	8	17,068	7,687 07	8,850
Lenawee.....	128	467,701	48,304 28	329,821
Livingston.....	27	176,122	81,030 29	148,124
Luce.....	4	20,874	3,521 52	6,000
Mackinac.....	14	61,082	6,023 65	29,080
Macomb.....	100	277,694	42,615 25	152,172
Manistee.....	97	531,061	178,362 44	410,512
Marquette.....	76	423,734	95,788 08	166,622
Mason.....	38	219,616	37,202 68	77,200
Mecosta.....	56	498,619	210,457 06	409,364
Menominee.....	51	157,980	26,963 46	94,855
Midland.....	60	122,875	40,465 23	94,198
Missaukee.....	6	159,500	1,116 58	155,075
Monroe.....	66	485,049	28,064 50	378,250
Montcalm.....	100	241,771	46,815 44	183,744
Montmorency.....	7	36,400	293 71	14,300
Muskegon.....	176	1,382,283	538,469 67	1,085,245
Newaygo.....	29	68,190	56,082 13	52,206
Oakland.....	220	930,394	168,469 18	534,124
Oceana.....	22	42,093	17,787 87	20,870
Ogemaw.....	14	30,672	16,544 69	21,100
Ontonagon.....	14	67,016	44,405 73	44,950
Oscoda.....	40	56,084	19,838 81	38,425
Otsego.....	12	25,906	4,865 14	20,250
Ottawa.....	102	281,478	38,482 35	180,250
Presque Isle.....	13	19,622	11,187 01	13,500
Roscommon.....	4	8,684	3,539 00	4,400
Saginaw.....	363	6,191,249	455,829 24	5,497,278
Sanilac.....	82	128,267	61,729 76	80,971
Schoolcraft.....	23	247,278	48,077 43	196,970
Shiawassee.....	117	516,844	88,333 75	350,500
St. Clair.....	225	568,722	126,951 78	424,618
St. Joseph.....	63	135,589	22,508 22	89,705
Tuscola.....	47	117,834	58,692 92	76,210
Van Buren.....	91	212,760	33,638 79	243,261
Washtenaw.....	146	771,136	37,057 00	462,148
Wayne.....	2,745	30,824,951	1,618,604 89	30,757,412
Wexford.....	46	312,514	29,562 49	235,119
Totals.....	9,660	\$72,328,394	\$7,446,158 57	\$60,225,362

Note—No record is given of Oscoda county, no reports having been received from this county.

TABLE V.—CAUSES OF FIRES, LOSS AND INSURANCE.

Cause.	No.	Value.	Loss.	Insurance.
Acid tank	1	\$85,000	\$40 60
Adjoining building	562	3,000,253	542,233 71	\$2,579,105
Alcohol lamp	5	7,800	544 50	6,500
Alcohol stove	1	1,500	21 50	500
Auto back fire	25	62,173	7,041 89	43,503
Awning	5	7,250	730 72	6,250
Baker's oven	2	109,100	545 00	61,100
Balloon on roof	1	2,000	350 00	1,700
Breaking sprinkler pipe	1	45,000	601 00	5,000
Burglar	2	2,800	421 50	1,600
Burning underbrush	2	5,500	176 01	5,275
Burning grass	1	200	150 00	200
Bursting oil pipe	1	155,000	135,000 00	100,000
Boiler	15	137,998	11,594 78	101,101
Bonfire	37	148,963	6,991 43	103,635
Careless servant	3	16,000	4,232 50	11,410
Careless smoker	484	3,417,431	255,282 35	3,408,778
Candle	48	197,885	10,110 87	114,285
Christmas tree	16	45,893	2,146 68	41,750
Christmas turkey	1	1,000	20 00	1,000
Careless children	6	4,645	1,130 23	3,360
Chemical tank	1	52,000	25 00	10,000
Cleaning instruments	1	1,000	383 00	1,500
Clogged conveyor	1	1,500	2 89	1,500
Cleaning fluid	1	1,500	6 00	1,500
Clothing near stove	60	388,644	11,689 11	272,954
Corn popper	1	1,000	10 61	700
Core oven	2	7,000	59 56	6,600
Collision	1	50,000	75 00	50,000
Curtain from candle	1	1,000	137 00	1,000
Curtain from gas jet	71	234,750	6,127 88	193,337
Curtain from stove	2	1,100	135 00	1,000
Defective chimney	682	2,567,990	863,309 40	2,310,199
Defective engine	1	820	820 00	820
Defective fireplace	33	254,000	3,251 41	113,050
Defective film	2	11,500	67 34	5,500
Defective gas meter	9	21,800	2,858 00	117,450
Defective steampipe	6	63,891	14,898 53	41,360
Defective stovepipe	27	272,794	36,740 43	162,675
Defective wiring	318	2,400,020	703,357 34	2,313,693
Dry kiln	9	1,023,930	234,173 00	563,800
Electric bed warmer	3	2,900	196 84	2,400
Electric heater	5	92,954	6,486 00	64,800
Electric iron	54	631,335	85,856 82	387,470
Electric light	16	934,269	247,966 41	849,302
Electric pad	2	5,500	210 75	4,300
Electric spark	1	75,000	1,502 50	82,200
Electric torch	1	1,000	2 00	600
Electric water heater	1	10,000	7 20	10,000
Enameling oven	2	900,300	105,252 00	870,663
Engine	1	3,600	2,600 00	15,160
Explosion	13	59,142	12,727 30	45,197
Explosion of bottle of medicine	1	1,200	55 00	600
Explosion of firepot	1	4,000	33 00	3,700
Explosion of flashlight	2	3,000	33 00	3,000
Explosion of gas	48	285,431	40,824 65	158,700
Explosion of gas engine	2	72,400	562 61	72,400
Explosion of gasoline	87	233,813	45,198 84	161,700
Explosion of gasoline stove	4	5,000	170 12	3,500
Explosion of gasoline coffee urn	1	3,247	3,247 00	3,600
Explosion of kerosene	6	505,235	1,242 33	403,800
Explosion of lamp	126	173,241	42,618 59	93,972
Explosion of lantern	4	6,160	4,006 10	5,175
Explosion of oil tank	1	290	10 00	290

TABLE V.—Continued.

Cause.	No.	Value.	Loss.	Insurance.
Explosion of stove.....	5	\$10,536	\$758 00	\$7,650
Explosion of turpentine.....	1	2,000	18 75	2,000
Explosion of hot water system.....	1	5,000	400 00
Feed Cooker.....	1	5,000	953 53	1,100
Fireless Cooker.....	1	5,000	47 69	3,500
Fireworks.....	53	142,292	1,481 29	87,113
Forest Fires.....	3	856,191	8,745 00	786,250
Friction.....	2	259,567	2,165 76	260,000
Fumigating.....	18	72,766	4,193 54	46,750
Gas engine.....	5	123,250	1,893 80	105,650
Gas fixtures.....	4	100,000	104 00	15,500
Gas iron.....	3	2,000	124 00	2,000
Gas jet.....	21	61,305	15,715 11	41,572
Gas lamp.....	2	1,700	33 00	1,300
Gas mantle.....	4	44,000	95 00	6,200
Gas pipe.....	4	7,000	399 93	6,455
Gas stove.....	80	238,602	23,672 82	226,268
Gas torch.....	2	143,500	178 00	81,000
Gas tubing.....	2	3,000	18 80	2,200
Gasoline iron.....	1	4,000	100 00	3,300
Gasoline lamp.....	5	60,117	1,277 23	20,000
Gasoline stove.....	113	227,021	19,246 03	11,322
Gasoline torch.....	7	27,965	2,077 13	17,955
Gasoline tank.....	2	3,000	442 60	1,700
Heating plant.....	4	7,788	1,027 59	12,185
Hot bearings.....	8	80,392	46,371 91	32,786
Hot bolt on rug.....	1	500	6 00	400
Hot box.....	5	61,000	1,206 81	50,800
Hot brick.....	1	500	16 48	300
Hot castings.....	3	31,644	1,785 00	18,600
Hot coals.....	72	420,735	37,986 50	288,400
Hot grease.....	26	1,219,906	24,124 52	1,104,075
Hot lime.....	1	200	15 00
Hot metal.....	2	24,500	255 00	18,250
Hot metal pot.....	1	35,000	154 38	32,700
Hot oil.....	1	900	2 34	350
Hot paint.....	2	4,800	70 00	2,800
Hot tar.....	6	11,300	885 44	9,450
Hot turpentine.....	3	18,100	2,075 00	9,200
Hot vat.....	1	25,000	1,000 00	10,200
Hot varnish.....	3	59,500	330 95	54,300
Hot water pipe.....	1	4,000	25 00	4,000
Hot wax.....	4	10,500	181 00	8,750
Incendiary.....	117	1,119,041	237,818 19	1,006,930
Jack o'lantern.....	11	25,500	261 58	18,417
Laboratory.....	2	37,000	41 67	36,500
Lamp.....	3	3,550	225 50	3,550
Lamp near clothing.....	1	2,300	280 00	500
Lamp in closet.....	1	700	70 00
Lamp near curtain.....	17	23,750	521 50	11,625
Lamp in chicken breeder.....	1	65	45 00
Lantern.....	18	22,323	12,210 94	15,724
Lantern on piano.....	1	1,500	1 50	1,250
Leaking carburetor.....	2	7,000	188 25	6,500
Lighting plant.....	2	22,500	13 00	14,000
Lightning.....	1,333	4,868,637	749,492 66	3,041,861
Liquid stove polish.....	1	2,000	10 00	1,000
Machinery.....	7	797,850	4,251 36	938,246
Magic lantern.....	1	2,000	5 00	400
Matches.....	802	3,612,724	418,324 40	2,603,436
Oil stove.....	70	340,031	47,563 35	95,827
Overheated cake pan.....	1	4,000	433 79	2,100
Overheated coffee urn.....	1	5,000	149 00	4,000
Overheated coke.....	1	50,000	10 00
Overheated flatiron.....	1	1,000	10 50	600

TABLE V.—Continued.

Cause.	No.	Value.	Loss.	Insurance.
Overheated furnace.....	143	\$1,028,115	\$73,310 10	\$570,010
Overheated gaspipe.....	1	900	138 00	600
Overheated glue kettle.....	1	427,200	4,635 95	342,500
Overheated kettle.....	3	35,025	176 15	34,525
Overheated machine.....	1	16,000	69 00	13,500
Overheated motor.....	3	182,000	15,548 67	150,500
Overheated oven.....	26	249,185	20,121 71	190,965
Overheated stack.....	6	1,194,000	2,288 79	331,222
Overheated steampipe.....	2	48,984	12,270 20	22,500
Overheated sterilizer.....	1	18,000	155 00	9,500
Overheated stove.....	327	1,650,906	103,762 00	1,392,743
Overheated tank.....	1	2,000	150 00	2,000
Overheated vent pipe.....	1	25,500	1,653 00	12,000
Overheated water heater.....	5	32,300	883 59	16,600
Overpressure in tank.....	1	100,000	5,371 00	47,500
Overturned kettle.....	1	1,500	4 00	1,000
Overturned stove.....	3	32,000	99 00	2,000
Paraffine wax.....	4	244,200	2,742 11	90,400
Picture machine.....	1	2,000	158 00	2,000
Plumbers pot.....	1	8,000	100 00	3,000
Plumbers torch.....	11	100,725	2,983 00	61,325
Power house plant.....	1	3,000	3,000 00	3,000
Prisoner.....	2	16,000	191 40	11,000
Pump resistance.....	1	7,000	300 00	4,000
Railway collision.....	2	13,347	86,080 85	13,347
Red fire.....	1	1,000	10 00	1,800
Rubbish.....	34	870,069	54,311 81	642,397
Salamander.....	2	32,000	350 00	12,000
Short circuit.....	7	690,396	7,026 28	86,115
Smoke.....	2	6,200	4,205 32	4,500
Smoke house.....	7	17,050	492 15	11,200
Steampipes.....	1	1,500	2 25	1,500
Suns rays.....	1	1,250	5 35	1,250
Switch board.....	1	30,569	20,053 00	26,000
Sparks.....	5	3,850	901 95	3,450
Sparks from burning bark.....	1	2,000	10 80	1,500
Sparks from boiler.....	5	51,500	4,642 73	14,500
Sparks from chimney.....	566	1,517,910	180,143 02	1,078,627
Sparks from cupola.....	11	144,347	2,921 81	125,129
Sparks from engine.....	8	15,981	9,339 03	8,800
Sparks from forge.....	3	49,315	2,054 17	20,765
Sparks from furnace.....	15	454,843	64,110 50	30,000
Sparks from grate.....	12	24,700	257 00	600,000
Sparks from locomotive.....	116	741,160	141,330 58	600,000
Sparks from mill.....	1	1,000	25 87	600
Sparks from motor.....	2	70,000	100 00	42,300
Sparks from oven.....	1	9,300	1,842 00	7,000
Sparks from paving excavations.....	1	1,200	210 00	500
Sparks from stack.....	26	680,995	11,251 77	500
Sparks from stove.....	45	69,789	9,637 63	500
Sparks from steamer.....	1	300	8 00	500
Sparks from threshing machine.....	16	28,187	15,086 41	1,000
Spontaneous combustion.....	191	2,784,670	376,237 40	1,000
Tempering tanks.....	1	3,000	615 00	500
Thawing water pipes.....	21	55,800	17,605 71	500
Tramps.....	17	258,715	5,200 17	74,300
Trolley wire.....	2	101,000	78 00	101,000
Unknown.....	2,168	23,625,141	1,029,180 77	22,007,102
Upsetting chafing dish.....	1	800	5 80	570



Italian Hall, Calumet, where several persons met their death in a fire panic Christmas Day.

TABLE V.—*Concluded.*

Cause.	No.	Value.	Loss.	Insurance.
Ventilator.....	2	\$2,300	\$1,020 00	\$1,750
Vulcanizer.....	3	70,900	2,715 00	5,700
Wall paper near stove.....	6	6,075	220 75	4,500
Wood near stove.....	13	142,000	5,450 00	31,900
Water.....	1	5,000	40 00	4,000
Windstorm.....	83	124,200	6,295 47	128,675
Wood alcohol.....	1	300	10 00	300
Workman's firepot.....	1	6,000	25 00	5,000
Totals.....	9,660	\$72,328,394	\$7,446,158 57	\$60,225,362

NUMBER OF INVESTIGATIONS.

Since the last report, fire investigations were conducted in twenty-nine counties in Michigan.

Property losses, so far as known, caused by fires reported for investigation and classed as Incendiary, Suspicious and Unknown causes:

Incendiary	\$25,049 00
Suspicious	70,480 00
Unknown	4,225 00
Total	\$99,754 00

RECORD OF FIRE INVESTIGATIONS MADE SINCE THE ORGANIZATION OF THE DEPT.

1911	22
1912	22
1913	61
Total	105

Charges brought against:	Confessions.	Bound over.	Acquitted.	Placed on probation.	Charges withdrawn.	Sentenced on minor charges.	Placed in State institutions.	Removed from State.	Pending.
Frank Livermore.....	1	1				1			1
Egbert F. Amy.....	1	1							1
Walter Goldsworthy.....	1	1							1
Mrs. Rosa Johnson.....					1				
John King.....									
Mrs. John King.....					1				
Fred Speck.....	1	1		1	1			1	
Kenneth Knowles.....		1			1				
Fred B. Jenks.....		1	1						
Edwin C. Weller.....		1							
George Baldwin.....					1		1		
Philip Phillips.....	1					1			
Albert Oblaser.....					1				
Chris. Vitale.....					1				
Mrs. Chris. Vitale.....					1				
Fifteen cases brought.....	4	5	1	1	7	2	1	1	3



Bon Ton Mfg. Co., Petoskey, 2 story piano bench factory set afire Nov. 8, 1913, in 7 places.
Varnish, newspapers and shavings used.

Fires reported for investigation since last report, 61 in number, were classed as follows:

Incendiary	22
Suspicious	34
Unknown	5
Total	61

TABLE VI.—FIRES INVESTIGATED, CLASSED BY COUNTIES.

County.	Incendiary.	Suspicious.	Unknown.
Barry.....	1	1	
Bay.....	5		
Berrien.....		2	
Calhoun.....	1		
Charlevoix.....	1	2	
Chippewa.....		1	
Clare.....	1		
Eaton.....		1	
Emmet.....	1	1	
Genesee.....		1	
Grand Traverse.....		1	
Huron.....	1	1	
Ingham.....		2	
Ionia.....		1	
Jackson.....		2	
Kent.....		2	1
Luce.....		1	
Manistee.....	1		
Mecosta.....		1	
Menominee.....	1	1	
Ottawa.....		1	
Saginaw.....	1		
Sanilac.....		2	
St. Clair.....	2	1	
Tuscola.....			1
Van Buren.....	1		
Washtenaw.....	3	1	
Wayne.....	2	7	3
Wexford.....		1	
Totals.....	22	34	5

FIRES INVESTIGATED.

BARRY COUNTY.

Wear-U-Well Shoe Co. store, Hastings, Frank Livermore, Mgr. Fire occurred July 18, 1913, confined to shoe boxes, newspapers, etc., in basement of store. Livermore apparently set the fire to conceal a shortage of stock, as he was arrested on complaint of his company charged with embezzlement of \$70.00 worth of shoes, confessed and was sentenced Aug. 25, 1913, to serve one to five years in Ionia Reformatory.

Jay G. Carpenter dwelling in Carlton township. Fire occurred Sept. 15, 1913, was discovered in leanto of dwelling by neighbors. A natural cause seems improbable. There have been many similar fires in the locality, causes unknown.

BAY COUNTY.

Mrs. Rosa Johnson millinery store at Pinconning, including contents, heavily insured, and adjoining property. Fire occurred July 11, 1913. Egbert F. Amy, of Bay City, was arrested on the charge of arson which later was dismissed, owing to defects in bill of complaint, on motion of Prosecutor. Amy later was re-arrested, also Fire Chief Walter Goldsworthy and Mrs. Johnson, on charges of conspiracy. Amy and Goldsworthy confessed, implicating Mrs. Johnson, and were bound over to the Circuit court. Mrs. Johnson, when arraigned, demanded an examination in Justice court. Amy confessed firing the Johnson building for \$50.00, \$20.00 of which he had received. The matter is still pending in court.

Linwood Lumber Company lumber shed and contents, at Linwood. Fire occurred July 13, 1913, destroying the property after two attempts within a short time to burn the property. The "fire-bug" has not been apprehended.

BERRIEN COUNTY.

D. C. Wood store building and other property, in Bainbridge township. Fire occurred July 20, 1913. Investigation pending.

Vincent A. Rice summer hotel, at Chapin Lake. Fire occurred in October, 1913, circumstances such that this department felt justified in investigating.

CALHOUN COUNTY.

Wilbur Sprague farm buildings, and contents owned by himself and tenant, John King and wife, in Emmet township. Fire occurred Sept. 1, 1913. King and wife were arrested Sept. 15, 1913, charged with arson. Cases were dismissed without the knowledge or consent of the department, on motion of the Prosecuting Attorney.

CHARLEVOIX COUNTY.

H. I. McMillan, frame warehouse at East Jordan, used by Alfred Rogers, Contractor. Fire occurred Oct. 7, 1913, about 5 gallons of kero-

sene being used in firing the building. The "fire-bug" has not been apprehended.

L. N. Melosh, frame dwelling at Boyne City. Fire occurred Oct. 19, 1913. Circumstances surrounding fire such that this department felt justified in investigating.

Mr. Geiken's frame building at Charlevoix, used by Thomas Zverina as a "Quick Repair Shoe Shop." Fire occurred in December, 1913. Circumstances surrounding fire such that the department felt justified in investigating.

CHIPPEWA COUNTY.

Alex. W. Clark hotel, saloon, barn, dwelling and other buildings at Brimley. Fire occurred Oct. 12, 1913. Circumstances surrounding fire such that this department felt justified in investigating.

CLARE COUNTY.

District Schoolhouse No. 5, Hamilton township. Fired Dec. 1, 1913, by Fred Speck, aged 69, who confessed that infatuation for his 18 year old adopted daughter, teacher in the school, and fear she would marry a young man with whom she appeared friendly, prompted him to burn the school, thinking she would lose her position as teacher and return to the parental home. At the February term of Circuit Court, Speck was released on probation with the understanding that he reimburse the insurance company and school district to the extent of \$500 for loss sustained.

EATON COUNTY.

Howard Crozier farm barn in Eaton township. Fire occurred Nov. 17, 1913, and reported of suspicious nature. Cause not determined.

EMMET COUNTY.

Kludjian & Cartozian, Japanese and novelty goods store, at Petoskey. Fire occurred Aug. 30, 1913, starting in paper and rubbish in rear end of store. Cause not determined.

Bon Ton Mfg. Co., factory building, at Petoskey. Fire occurred Nov. 8, 1913, was set in 7 places, discovered and extinguished by Fire Department in time to leave conclusive evidence varnish, shavings and newspapers were used in an attempt to destroy the property. The "fire-bug" has not been apprehended.

GENESEE COUNTY.

Robert Hawkshaw farm barn and contents, 10 miles from Flint. Fire occurred Dec. 22, 1913. Cause not determined. Circumstances surrounding fire such that this department felt justified in investigating.

GRAND TRAVERSE COUNTY.

James Dunn, former roadhouse, and contents owned by Charles Greenman, near Traverse City. Fire occurred July 7, 1913. Circumstances surrounding fire such that the department felt justified in investigating.

HURON COUNTY.

M. L. Ramseyer, farm dwelling, near Elkton. Fire occurred in Sept. 1913, cause not determined. Circumstances such that department felt justified in investigating.

Abraham Koffman, store building, contents, and adjoining property, at Kinde. Fire occurred Dec. 29, 1913, cause not determined. Circumstances such that department felt justified in investigating. Pending.

INGHAM COUNTY.

Mr. and Mrs. Peter Campbell, household goods in dwelling at 807 Johnson Ave., Lansing. Fire occurred Aug. 26, 1913, originating in different parts of the house. Circumstances surrounding fire such that this department felt justified in investigating.

S. G. Shore and wife, household goods in dwelling at 807 Lenawee street, Lansing. Fire occurred Oct. 29, 1913, originating in rags around a two gallon can of gasoline in house. Cause not determined, but the circumstances were such that the department felt justified in investigating.

IONIA COUNTY.

George Catt, frame barn and sheds in Odessa township. Fire occurred July 22, 1913, cause not determined. Circumstances such that this department felt justified in investigating.

JACKSON COUNTY.

Jerome and Byron Angel, brothers, dwelling and contents, in the city of Jackson. Fire occurred July 26, 1913. Circumstances surrounding fire such that this department felt justified in investigating.

Mrs. Lena Van Buren poolroom and adjoining property, Munith. Fire occurred Oct. 20, 1913, destroying \$10,000 to \$15,000 worth of property. Circumstances surrounding fire such that this department felt justified in investigating.

KENT COUNTY.

Hiram Irwin and wife, farmhouse and contents, in Nelson township. Fire occurred Aug. 29, 1913. Circumstances such that this department felt justified in investigating.

L. Gilbo frame store building occupied by Peter Slockis, in Grand Rapids. Fire occurred Sept. 6, 1913. Circumstances such that this department felt justified in investigating.

August Shultz, frame barn and silo, in Gaines township. Fire occurred Sept. 4, 1913, cause unknown and not determined by investigation.

LUCE COUNTY.

Northern Timber Company lumber at Deer Park, so-called. Fire occurred June 17, 1913, destroying about 2,600,000 feet of lumber, valued at about \$28,000.00. Circumstances surrounding fire such that this department felt justified in investigating.

MANISTEE COUNTY.

Dr. G. F. Knowles, family dwelling, in Manistee. Fires occurred Nov. 6 and 7, 1913. Kenneth Knowles, 19 year old son of owner, believed to be mentally defective and responsible for the fires. Parents placed him in care of friends in Chicago after the Probate Court had been petitioned for his examination.

MECOSTA COUNTY.

Elmer P. Forbes and wife, general store and contents, at Chippewa Lake and adjoining property. Fire occurred Nov. 3, 1913. Circumstances surrounding fire such that the department felt justified in investigating.

MENOMINEE COUNTY.

Bartholomew Kollman, farm barn 7 miles north of Menominee. Fire occurred July 24, 1913. Circumstances such that the department felt justified in investigating.

Joseph LeSage & Son, frame store at 430 Grand Ave. Menominee. Fire occurred Dec. 30, 1913. Apparently store was fired to conceal robbery. The "fire-bug" has not been apprehended.

OTTAWA COUNTY.

William Havedink, farm barn and contents 5 miles from Holland. Fire occurred Aug. 31, 1913. Circumstances surrounding fire such that department felt justified in investigating. Pending.

SAGINAW COUNTY.

Fred B. Jenks and Edwin C. Weller, roller rink at Riverside Park, near Saginaw. Firing attempted Sept. 2, 1913. Kerosene, rags, roofing preparation, etc., with burning candle, were fortunately discovered in building in time to prevent damage to property. Jenks and Weller were arrested, charged with arson. Weller, after trial lasting six days, was acquitted by a jury, and the Jenks case was dismissed soon afterward on motion of the Prosecutor.

SANILAC COUNTY.

Alonzo Earns, frame barn in Worth township. Fire occurred in September, 1913, cause not determined. Circumstances such that this department felt justified in investigating.

Luther Fairbanks, frame barn in Marlette township. Fire occurred June 15, 1913, cause not determined. Circumstances surrounding fire such that this department felt justified in investigating.

ST. CLAIR COUNTY.

R. G. Baker, vacant frame dwelling, in Marine City. Fire occurred June 22, 1913, believed to have been set by boys. Circumstances surrounding fire such that this department felt justified in investigating. There have been a number of similar fires in this locality in past few

years, and a few days before the Baker fire two boys confessed to having fired other vacant buildings.

Kerr Grain & Hay Co. buildings, at Melvin. Fire occurred Oct. 13, 1913, cause not determined. Circumstances surrounding fire such that this department felt justified in investigating.

TUSCOLA COUNTY.

M. E. Church in Denmark township. Fire, date not given, reported of mysterious origin. Cause of fire not determined.

VAN BUREN COUNTY.

Mrs. Ettie Watson farm barn, and contents owned by George Baldwin, tenant, in Decatur, township. Fire occurred Sept. 6, 1913. Circumstances surrounding fire such that this department felt justified in investigating.

WASHTENAW COUNTY.

Mrs. Lydia Thompson, frame barn, at Ann Arbor. Fire occurred Sept. 30, 1913. Philip Philips, aged 14, adopted by Ann Arbor family from State school at Coldwater, confessed to firing the building and other buildings and was returned to the Coldwater institution.

Albert Fiegle, frame barn in Ann Arbor. Fire occurred Oct. 13, 1913. Philip Philips, aged 14, also confessed responsibility for this fire.

First Church of Christ, in Ann Arbor. Fire occurred Oct. 13, 1913. Philip Phillips, aged 14, also confessed responsibility for this fire.

Hamilton G. Lewis, farm barn one mile from Ypsilanti. Fire occurred Dec. 1, 1913, fire reported of suspicious nature, but upon investigation Lewis explained fire was caused by a lighted lantern he was carrying being crushed against manger in barn by a cow, setting fire to the hay.

WAYNE COUNTY.

Philip Barcon, alias Cohen, household furniture, etc., at 296 Frederick St., Detroit. Fire occurred June 6, 1913, confined to closet in bedroom of dwelling. Circumstances surrounding fire such that this department felt justified in investigating.

Wladyslaw Mieszkowski, casket factory, at 513-515 E. Forest Av., Detroit. Fire occurred Sept. 11, 1913, cause not determined. Circumstances surrounding fire such that this department felt justified in investigating.

Chris. Vitale and wife, candy, notions and cigar store, at 716 Antoine St., Detroit. Fire occurred Sept. 15, 1913. Vitale and wife were arrested, charged with arson. Charges were withdrawn in Justice court, for lack of evidence, on motion of Prosecutor with consent of State Fire Marshal.

Harry Hartwick, motor boat on Detroit River, near Ecorse. Fire occurred Oct. 7, 1913. Circumstances surrounding fire such that this department felt justified in investigating.

A. E. Lewis, frame barn in Canton township. Fire occurred Oct. 10, 1913. Cause unknown, and not determined by investigation.

John Jasik store at 2504 Jefferson Ave. W., Detroit. Fire occurred Oct. 14, 1913. Circumstances surrounding fire such that this department felt justified in investigating. Pending.

Frank Mott, farm barn in Canton township. Fire occurred Oct 19, 1913, and reported of unknown origin. Cause of fire not determined.

Daniel F. Dennis, poolroom in building owned by Duncan Lockhart at 950-952 Grand River Ave., Detroit. Fire occurred Oct. 22, 1913. Circumstances surrounding fire such that this department felt justified in investigating.

John Deloes barn, rear of 478 Winder St., Detroit. Fires occurred Oct. 16 and Dec. 2, 1913. Albert Oblaser, roomer ejected by Mrs. Anna Zindler, occupant of house on this property, arrested on suspicion of arson, but evidence insufficient and on the minor charge of disorderly conduct, he was sentenced to 90 days imprisonment.

Steinberg Bros., Ladies' and Children's garments, store at 211 Michigan Ave., Detroit. Fire occurred Dec. 21, 1913. Circumstances surrounding fire such that this department felt justified in investigating. Investigation pending.

Frank Asario, poolroom at 173 Fort St., Detroit. Fire occurred Dec. 22, 1913, second mysterious fire in a month. Circumstances surrounding fire such that this department felt justified in investigating.

Barnett Waxer, contents of shed, rear of 309 Erskine Street, in Detroit. Fire occurred Dec. 30, 1913. Circumstances surrounding fire such that this department felt justified in investigating.

WEXFORD COUNTY.

Morrell & Lyle, general store at Sherman. Fire occurred Dec. 8, 1913. Circumstances surrounding fire such that this department felt justified in investigating.



Old type of fire fighting apparatus in use in 1840.



Horse drawn apparatus fast being replaced by automobile equipment.



Modern Automobile equipment drawn up in front of one Michigan City fire station.

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